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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/737,049	12/16/2003	Gary Knopeck	H0004492 USA	4770
128	7590 05/26/2000	EXAMINER		INER
HONEYWI	ELL INTERNATION	EL ARINI	EL ARINI, ZEINAB	
P O BOX 2245			ART UNIT	PAPER NUMBER
MORRISTO	WN, NJ 07962-2245	1746		
			DATE MAILED: 05/26/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/737,049	KNOPECK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Zeinab E. EL-Arini	1746				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
· <u> </u>	This action is <b>FINAL</b> . 2b) ☑ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	03 U.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) <u>1-36</u> is/are pending in the application.	)⊠ Claim(s) <u>1-36</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
·	5) Claim(s) is/are allowed.					
	Claim(s) <u>1-36</u> is/are rejected.					
· _	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on 16 December 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Ex-	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents		)-(d) or (f).				
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior application from the International Bureau	ity documents have been receive					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	·	Patent Application (PTO-152)				
Paper No(s)/Mail Date 3/10/04,7/19/04.  S. Patent and Trademark Office	6)					

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#### DETAILED ACTION

### Specification

1. The disclosure is objected to because of the following informalities: In the specification, page 3, last line, before "least", --- "at"--- should be inserted.

Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-36 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. In claims 2-4, 6-8, 28, and 30, "contacting step" lacks antecedent basis.
- 5. In claim 5, line 1, "providing step", and at line 4, "immersing step" lack antecedent basis.

Claims 1 and 15, 26 are indefinite in the recitation of "less than about", and "greater than about".

6. A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. See MPEP § 2173.05(c). Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then

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narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961); *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481 (Bd. App. 1949). In the present instance, claims 1,15 and 26 recite the broad recitation "less than" and "grater than", and the claims also recite "about" which is the narrower statement of the range/limitation.

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## Allowable Subject Matter

- 7. Claims 1, 15, and 26 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 8. Claims 2-14, 16-25, and 27-36 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 9. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record failed to teach a method and composition for cleaning an article containing contaminants comprising providing a zeotropic solvent composition comprising at least one flammable solvent, at least one first nonflammable solvent, and at least one second nonflammable solvent, having different boiling point, and contacting the article with said zeotropic solvent composition to remove at least portion of the contaminants from said article as claimed.

#### Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tanaka et al. (5,288,333) disclose wafer cleaning method and apparatus therefore. Tanaka (5,174,855) discloses surface treating apparatus and method using vapor. Slinn (4,150,493) discloses drying articles.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeinab E. EL-Arini whose telephone number is (571) 272-1301. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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ZEE 05/23/06